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## RAW SEQUENCE LISTING

DATE: 07/05/2002

PATENT APPLICATION: US/09/915,060A

TIME: 14:28:07

Input Set : A:\EP.txt

Output Set: N:\CRF3\07052002\I915060A.raw

3 <110> APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol  
5 <120> TITLE OF INVENTION: Novel internal ribosome entry site, vector containing same  
and the uses

6 thereof

8 &lt;130&gt; FILE REFERENCE: 2676-4976US

10 &lt;140&gt; CURRENT APPLICATION NUMBER: US 09/915,060A

11 &lt;141&gt; CURRENT FILING DATE: 2001-07-25

13 &lt;150&gt; PRIOR APPLICATION NUMBER: PCT/EP00/00643

14 &lt;151&gt; PRIOR FILING DATE: 2000-01-26

16 &lt;160&gt; NUMBER OF SEQ ID NOS: 45

18 &lt;170&gt; SOFTWARE: PatentIn version 3.1

20 &lt;210&gt; SEQ ID NO: 1

21 &lt;211&gt; LENGTH: 222

22 &lt;212&gt; TYPE: DNA

23 &lt;213&gt; ORGANISM: Homo sapiens

25 &lt;400&gt; SEQUENCE: 1

26 gacatcagcg acagcgagag gaagaccagc tcggccgagt cctcgtcagc agaatcaggc 60

28 tcaggttctg aggaagaaga ggaggaggag gaagaggagg aggaggaagg gagcaccagt 120

30 gaagaatcag aggaggaaga ggaagaggag gaggaggaga ccggcagcaa ctctgaggag 180

32 gcatcagagc agtctgccga agaagtaagt gaggaagaaa tg 222

34 &lt;210&gt; SEQ ID NO: 2

35 &lt;211&gt; LENGTH: 222

36 &lt;212&gt; TYPE: RNA

37 &lt;213&gt; ORGANISM: Homo sapiens

39 &lt;400&gt; SEQUENCE: 2

40 gacaucagcg acagcgagag gaagaccagc ucggccgagu ccucgucagc agaaucaggc 60

42 ucagguucug aggaagaaga ggaggaggag gaagaggagg aggaggaagg gagcaccagu 120

44 gaagaaucag aggaggaaga ggaagaggag gaggaggaga ccggcagcaa cucugaggag 180

46 gcaucagagc agucugccga agaaguaagu gaggaagaaa ug 222

48 &lt;210&gt; SEQ ID NO: 3

49 &lt;211&gt; LENGTH: 2471

50 &lt;212&gt; TYPE: DNA

51 &lt;213&gt; ORGANISM: Homo sapiens

53 &lt;400&gt; SEQUENCE: 3

54 atacaggaag tgacgatact tttggcgcg cggttgctg tttcttctct ggctccggga 60

56 ccggcgggcg cgggcgggcg acggggcgcg gcgtagggtg ttttaactca aatgggtgat 120

58 gaaaaggact cttggaaagt gaaaacttta gatgaaattc ttcaggaaaa gaaacgaagg 180

60 aaggaacaag aggagaaagc agagataaaa cgcttaaaaa attctgatga ccgggattcc 240

62 aagcgggatt cccttgagga gggggagctg agagatcact gcatggagat cacaataagg 300

64 aactccccgt atagaagaga agactctatg gaagacagag gagaagaaga tgattctttg 360

66 gccatcaaac caccacagca aatgtctcgg aaagaaaaag ttcacacag aaaagatgaa 420

68 aagagaaaag agaaaaagca tgctagagtg aagaagaaag aaagagagca cgaacgtcgg 480

70 aaacgacatc gagaagaaca ggataaagct cgccgggaat gggaaagaca gaagagaagg 540

72 gaaatggcaa gggagcattc caggagagaa aggggggaat atggcgtgtg cctcttcagg 600

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74 gaccgcttgg agcagttaga aaggaagcgg gagcgggagc gcaagatgcg ggagcagcag 660
76 aaggagcagc gggagcagaa ggagcgcgag cggcgggagg aggagcggcg caaggagcgg 720
78 gaggcccgca gggaaagtgtc tgcacatcac cgaacgatga gagaggacta cagcgacaaa 780
80 gtgaaagcca gccactggag tcgcagcccg cctcggccgc cgcgggagcg gttcgagttg 840
82 ggagacggcc ggaagccagt aaaagaagag aaatggaag aaagggacct gctgtccgac 900
84 ttacaggaca tcagcgacag cgagaggaag accagctcgg ccgagtcctc gtcagcagaa 960
86 tcaggctcag gttctgagga agaagaggag gaggaggaag aggaggagga ggaagggagc 1020
88 accagtgaag aatcagagga ggaagaggaa gaggaggagg aggagaccgg cagcaactct 1080
90 gaggaggcat cagagcagtc tgccgaagaa gtaagtgagg aagaaatgag tgaagatgaa 1140
92 gaacgagaaa atgaaaacca cctcttggtt gttccagagt cacggttcga ccgagattcc 1200
94 ggggagagtg aagaagcaga ggaagaagtg ggtgagggaa cgccgcagag cagcgccctg 1260
96 acagagggcg actatgtgcc cgactccctt gccctgtcgc ccatcgagct caagcaggag 1320
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102 gaaattgttg ctctaaagcg gctgaagatg gagaaggaga aggagggctt cccgatcacg 1500
104 tcgctgaggg agatcaacac catcctcaag gccagcatc ccaacatcgt caccgttaga 1560
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118 tggtagtggt gttgcatctt cggggagctg ctgactcaga agcctctgtt ccccggaag 1980
120 tcagaaatcg atcagatcaa caaggtgttc aaggatctgg ggacccctag tgagaaaatc 2040
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124 aacaacctcc gcaagcgctt cggggctctg ctctcagacc agggcttcga cctcatgaac 2160
126 aagttcctga cctacttccc cgggagaggt atcagcgctg aggacggcct caagcatgag 2220
128 tatttcgcg agacccccct ccccatcgac ccctccatgt tccccacgtg gcccgccaag 2280
130 agcgagcagc agcgtgtgaa gcggggcacc agcccgaggc cccctgaggg aggcctgggc 2340
132 tacagccagc tgggtgacga cgacctgaag gagacgggct tccaccttac caccacgaac 2400
134 cagggggcct ctgccgcggg ccccggttcc agcctcaagt tctgaaggtc agagtggacc 2460
136 ccgtcatggg g 2471
139 <210> SEQ ID NO: 4
140 <211> LENGTH: 30
141 <212> TYPE: DNA
142 <213> ORGANISM: Homo sapiens
144 <400> SEQUENCE: 4
145 gacatcagcg acagcgagag gaagaccagc 30
147 <210> SEQ ID NO: 5
148 <211> LENGTH: 468
149 <212> TYPE: DNA
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 5
153 cacgaacgtc ggaaacgaca tcgagaagaa caggataaag ctgcgggga atgggaaaga 60
155 cagaagagaa gggaaatggc aaggagcat tccaggagag aaaggggaa tgatggcgtg 120
157 tgctcttca gggaccgctt ggagcagtta gaaaggaagc gggagcggga gcgcaagatg 180
159 cgggagcagc agaaggagca gcgggagcag aaggagcgcg agcggcgggc ggaggagcgg 240
161 cgcaaggagc gggaggcccg cagggaaagt tctgcacatc accgaacgat gagagaggac 300
163 tacagcgaca aagtgaaagc cagccactgg agtcgcagcc cgcctcggcc gccgcgggag 360

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165 cggttcgagt tgggagacgg ccggaagcca gtaaaagaag agaaaatgga agaaagggac 420
167 ctgctgtccg acttacagga catcagcgac agcgagagga agaccagc 468
169 <210> SEQ ID NO: 6
170 <211> LENGTH: 660
171 <212> TYPE: DNA
172 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 6
175 cacgaacgtc ggaaacgaca tcgagaagaa caggataaag ctcgccggga atgggaaaga 60
177 cagaagagaa gggaaatggc aaggagagcat tccaggagag aaagggggaa tgatggcgtg 120
179 tgcctcttca gggaccgctt ggagcagtta gaaaggaagc gggagcggga gcgcaagatg 180
181 cgggagcagc agaaggagca gcgggagcag aaggagcgcg agcggcgggc ggaggagcgg 240
183 cgcaaggagc gggaggcccc caggggaagtg tctgcacatc accgaacgat gagagaggac 300
185 tacagcgaca aagtgaagc cagccactgg agtcgcagcc cgcctcggcc gccgcgggag 360
187 cggttcgagt tgggagacgg ccggaagcca gtaaaagaag agaaaatgga agaaagggac 420
189 ctgctgtccg acttacagga catcagcgac agcgagagga agaccagctc ggccgagtcc 480
191 tcgtcagcag aatcaggctc aggttctgag gaagaagagg aggaggagga agaggaggag 540
193 gaggaagggg gcaccagtga agaatcagag gaggaagagg aaggaggagga ggaggagacc 600
195 ggcagcaact ctgaggaggc atcagagcag tctgccgaag aagtaagtga ggaagaaatg 660
197 <210> SEQ ID NO: 7
198 <211> LENGTH: 87
199 <212> TYPE: DNA
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 7
203 gaagaagagg aggaggagga agaggaggag gaggaagggg gcaccagtga agaatcagag 60
205 gaggaagagg aaggaggagga ggaggag 87
207 <210> SEQ ID NO: 8
208 <211> LENGTH: 30
209 <212> TYPE: DNA
C--> 210 <213> ORGANISM: Artificial
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <223> OTHER INFORMATION: Artificial Sequence: mutation primer in frame NotI
216 <400> SEQUENCE: 8
217 agcctcaagt tcgcggccgc agagtggacc 30
219 <210> SEQ ID NO: 9
220 <211> LENGTH: 21
221 <212> TYPE: DNA
C--> 222 <213> ORGANISM: Artificial
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <223> OTHER INFORMATION: Artificial Sequence: primer
228 <400> SEQUENCE: 9
229 gaggaagaag cgagtgaaga t 21
231 <210> SEQ ID NO: 10
232 <211> LENGTH: 22
233 <212> TYPE: DNA
C--> 234 <213> ORGANISM: Artificial
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature

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238 <223> OTHER INFORMATION: Artificial Sequence: primer
240 <400> SEQUENCE: 10
241 gacagcgaga aagaccagct cg
243 <210> SEQ ID NO: 11
244 <211> LENGTH: 35
245 <212> TYPE: DNA
C--> 246 <213> ORGANISM: Artificial
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <223> OTHER INFORMATION: Artificial Sequence: 5'-end primer
252 <400> SEQUENCE: 11
253 ctagtctaga aaagtga aaa ctttagatga aattc
255 <210> SEQ ID NO: 12
256 <211> LENGTH: 35
257 <212> TYPE: DNA
C--> 258 <213> ORGANISM: Artificial
260 <220> FEATURE:
261 <221> NAME/KEY: misc_feature
262 <223> OTHER INFORMATION: Artificial Sequence: 3'-end primer
264 <400> SEQUENCE: 12
265 tgcattgccat ggatgtcgtt tccgacgttc gtgcg
267 <210> SEQ ID NO: 13
268 <211> LENGTH: 35
269 <212> TYPE: DNA
C--> 271 <213> ORGANISM: Artificial
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <223> OTHER INFORMATION: Artificial Sequence: 3'-end primer
277 <400> SEQUENCE: 13
278 tgcattgccat ggtcctctct catcgttcgg tgatg
280 <210> SEQ ID NO: 14
281 <211> LENGTH: 35
282 <212> TYPE: DNA
C--> 283 <213> ORGANISM: Artificial
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <223> OTHER INFORMATION: Artificial Sequence: 3'-end primer
289 <400> SEQUENCE: 14
290 catgccatgg tcttcctctc gctgtcgtg atgtc
292 <210> SEQ ID NO: 15
293 <211> LENGTH: 32
294 <212> TYPE: DNA
C--> 295 <213> ORGANISM: Artificial
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <223> OTHER INFORMATION: Artificial Sequence: 5'-end primer
301 <400> SEQUENCE: 15
302 ctagtctaga catcaccgaa cgatgagaga gg
304 <210> SEQ ID NO: 16

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305 <211> LENGTH: 26
306 <212> TYPE: DNA
C--> 307 <213> ORGANISM: Artificial
309 <220> FEATURE:
310 <221> NAME/KEY: misc_feature
311 <223> OTHER INFORMATION: Artificial Sequence: hairpin forming double-stranded
oligonucleotide
313 <400> SEQUENCE: 16
314 cgcgtggcga gattttcagg agtcac 26
317 <210> SEQ ID NO: 17
318 <211> LENGTH: 26
319 <212> TYPE: DNA
C--> 320 <213> ORGANISM: Artificial
322 <220> FEATURE:
323 <221> NAME/KEY: misc_feature
324 <223> OTHER INFORMATION: Artificial Sequence: hairpin forming double-stranded
oligonucleotide
326 <400> SEQUENCE: 17
327 tcgagtgcact cctgaaaatc tcgcca 26
329 <210> SEQ ID NO: 18
330 <211> LENGTH: 40
331 <212> TYPE: DNA
C--> 332 <213> ORGANISM: Artificial
334 <220> FEATURE:
335 <221> NAME/KEY: misc_feature
336 <223> OTHER INFORMATION: Artificial Sequence: E-tag probe
338 <400> SEQUENCE: 18
339 acgcggttcc agcggtatccg gatacggctc cggcgcacct 40
341 <210> SEQ ID NO: 19
342 <211> LENGTH: 8
343 <212> TYPE: RNA
C--> 344 <213> ORGANISM: Artificial
346 <220> FEATURE:
347 <221> NAME/KEY: misc_feature
348 <223> OTHER INFORMATION: Artificial Sequence: primer
350 <400> SEQUENCE: 19
351 crccaugg 8
353 <210> SEQ ID NO: 20
354 <211> LENGTH: 9
355 <212> TYPE: RNA
C--> 356 <213> ORGANISM: Artificial
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360 <223> OTHER INFORMATION: Artificial Sequence: primer
362 <400> SEQUENCE: 20
363 cucaaaugg 9
365 <210> SEQ ID NO: 21
366 <211> LENGTH: 9
367 <212> TYPE: RNA
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370 <220> FEATURE:

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